

FIG.1

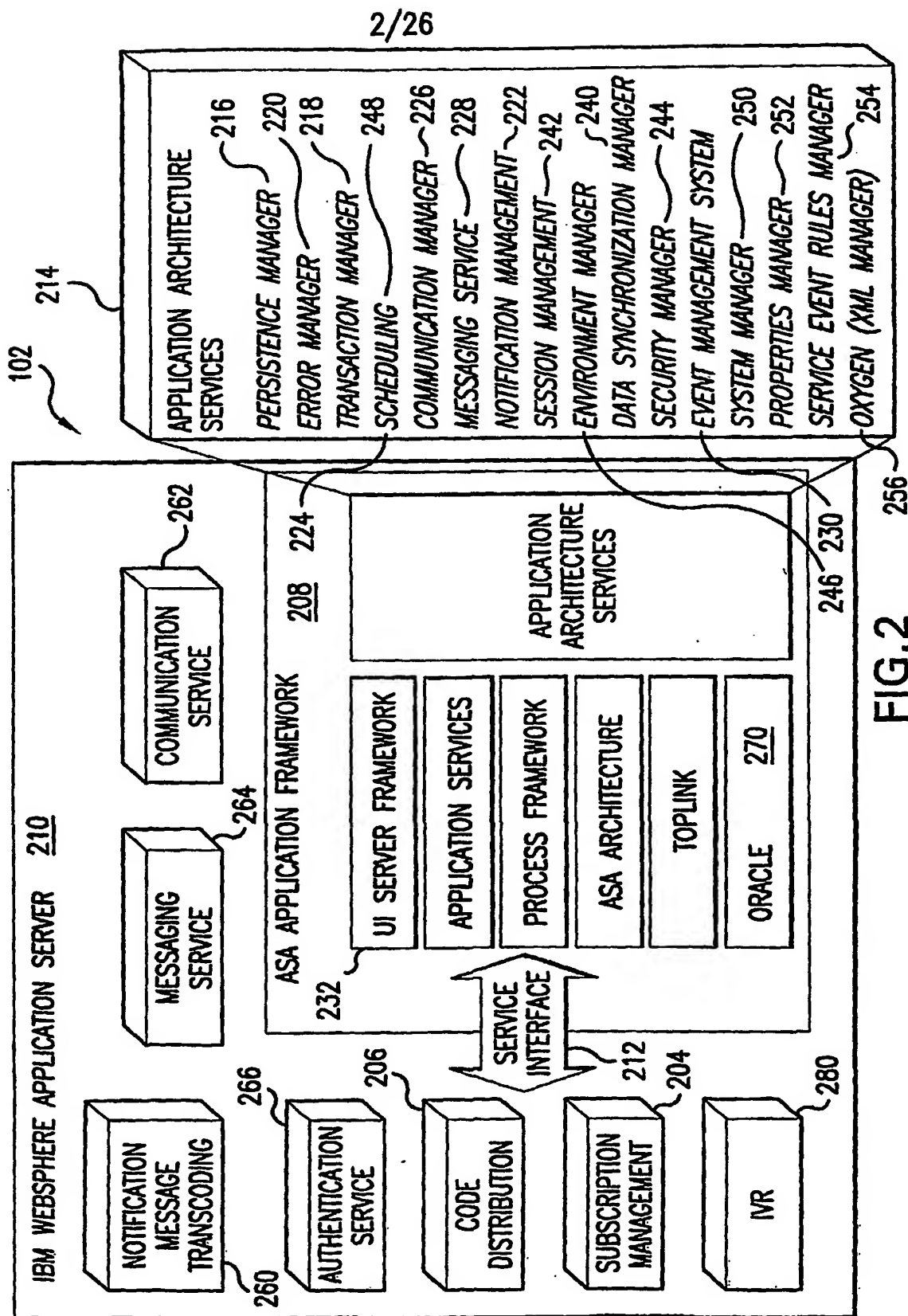


FIG.2

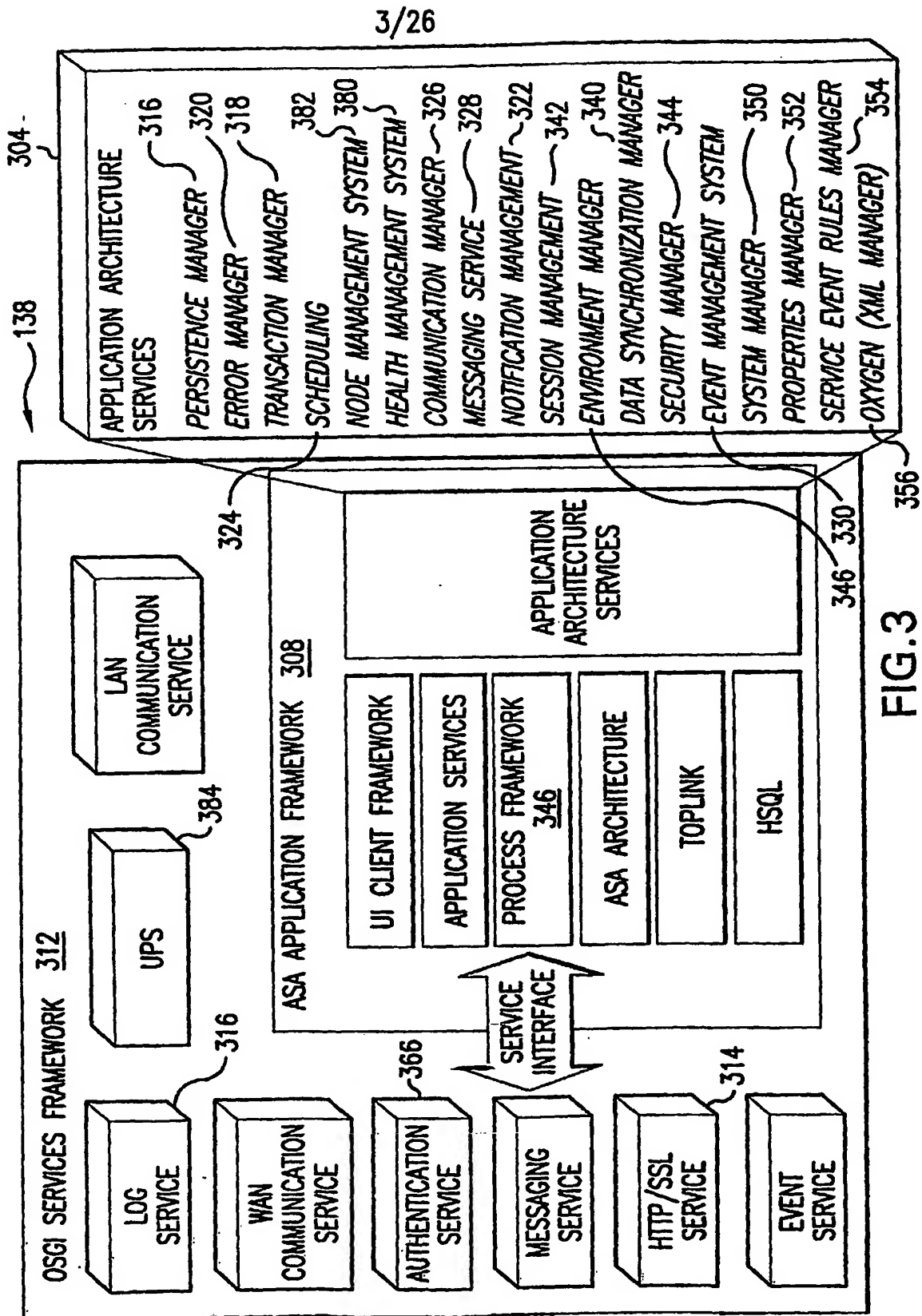


FIG.3

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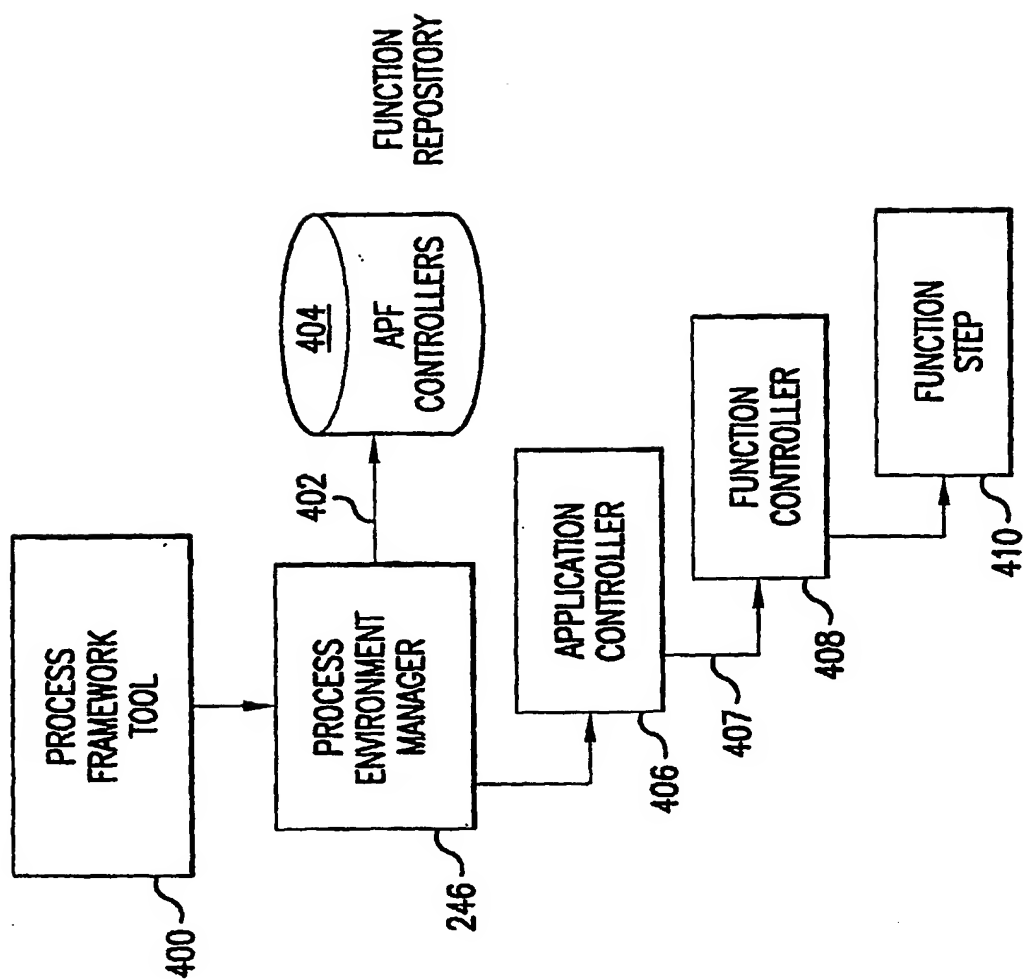


FIG.4

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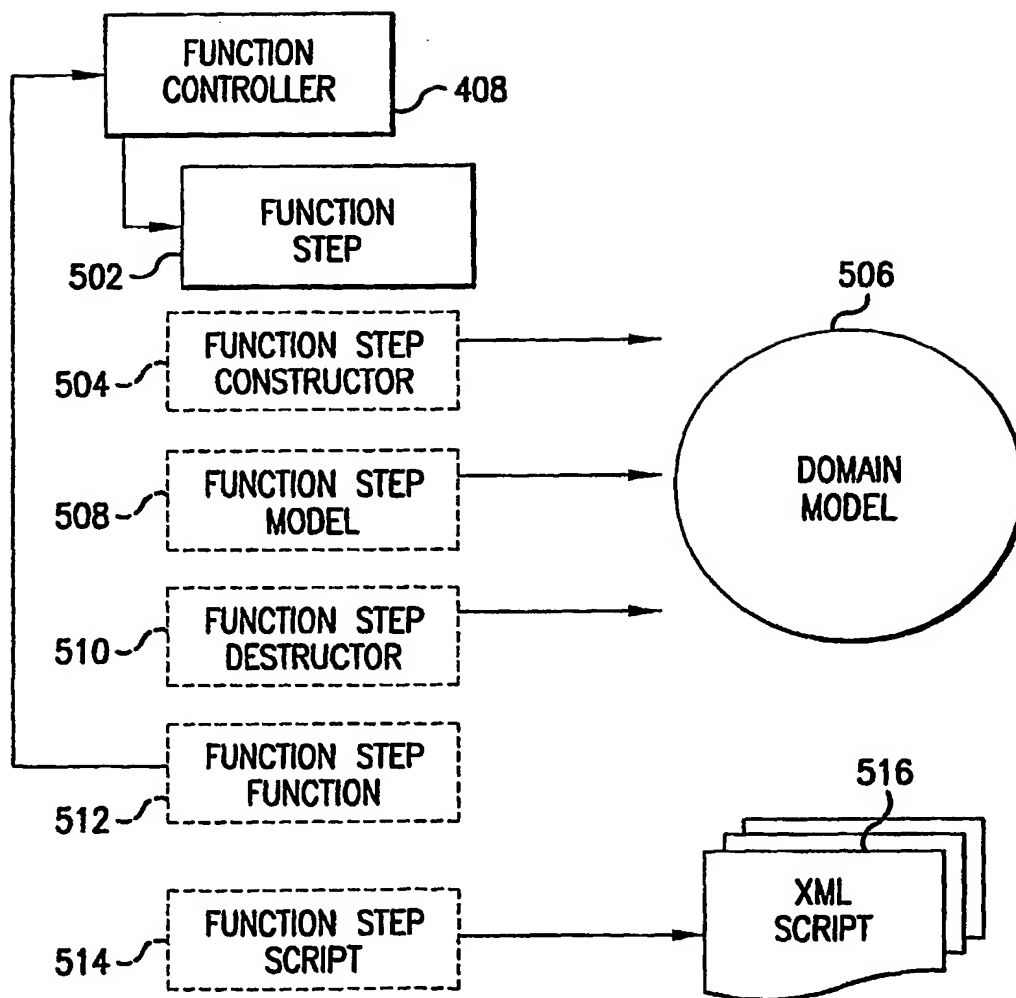


FIG. 5

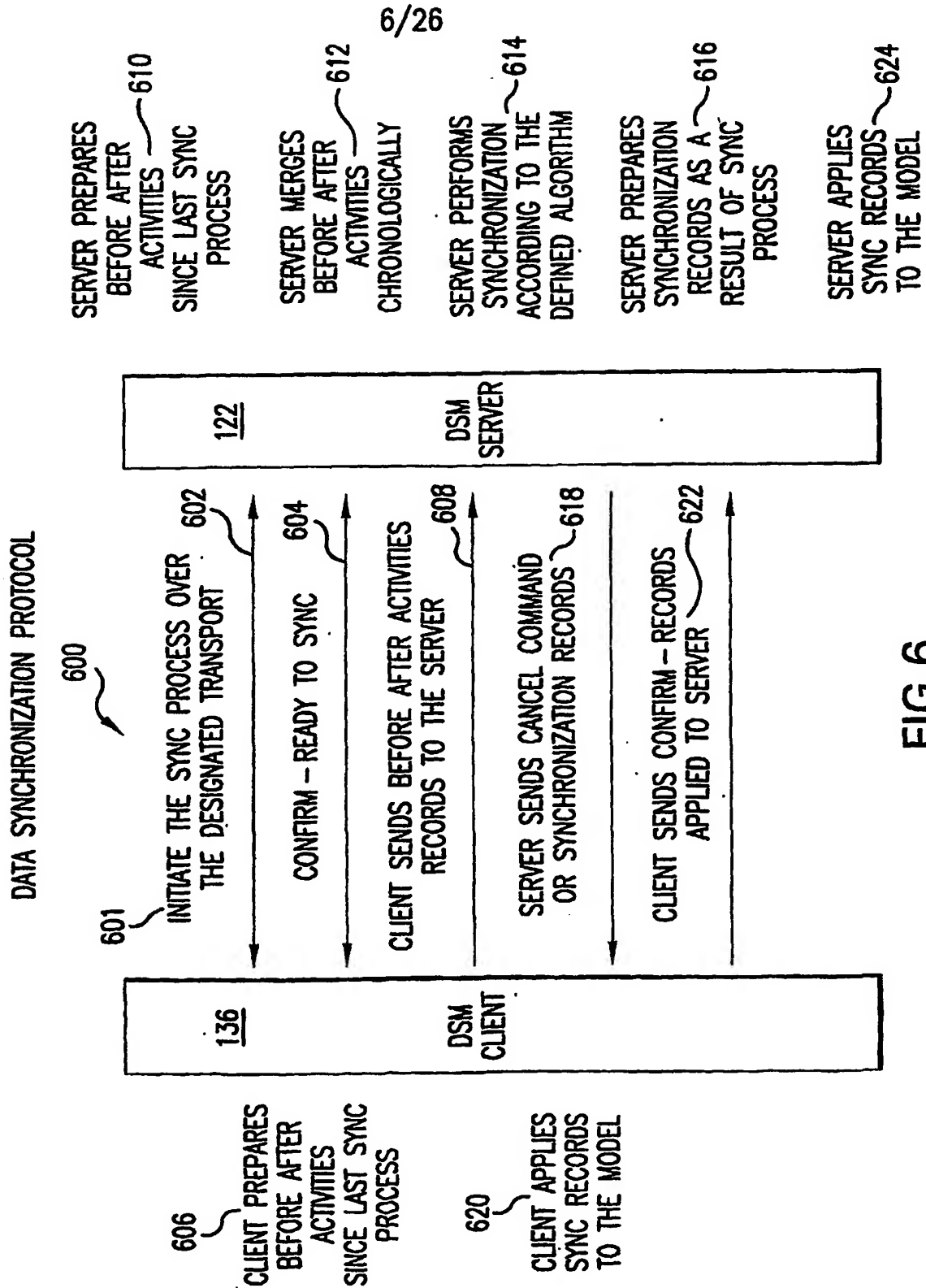
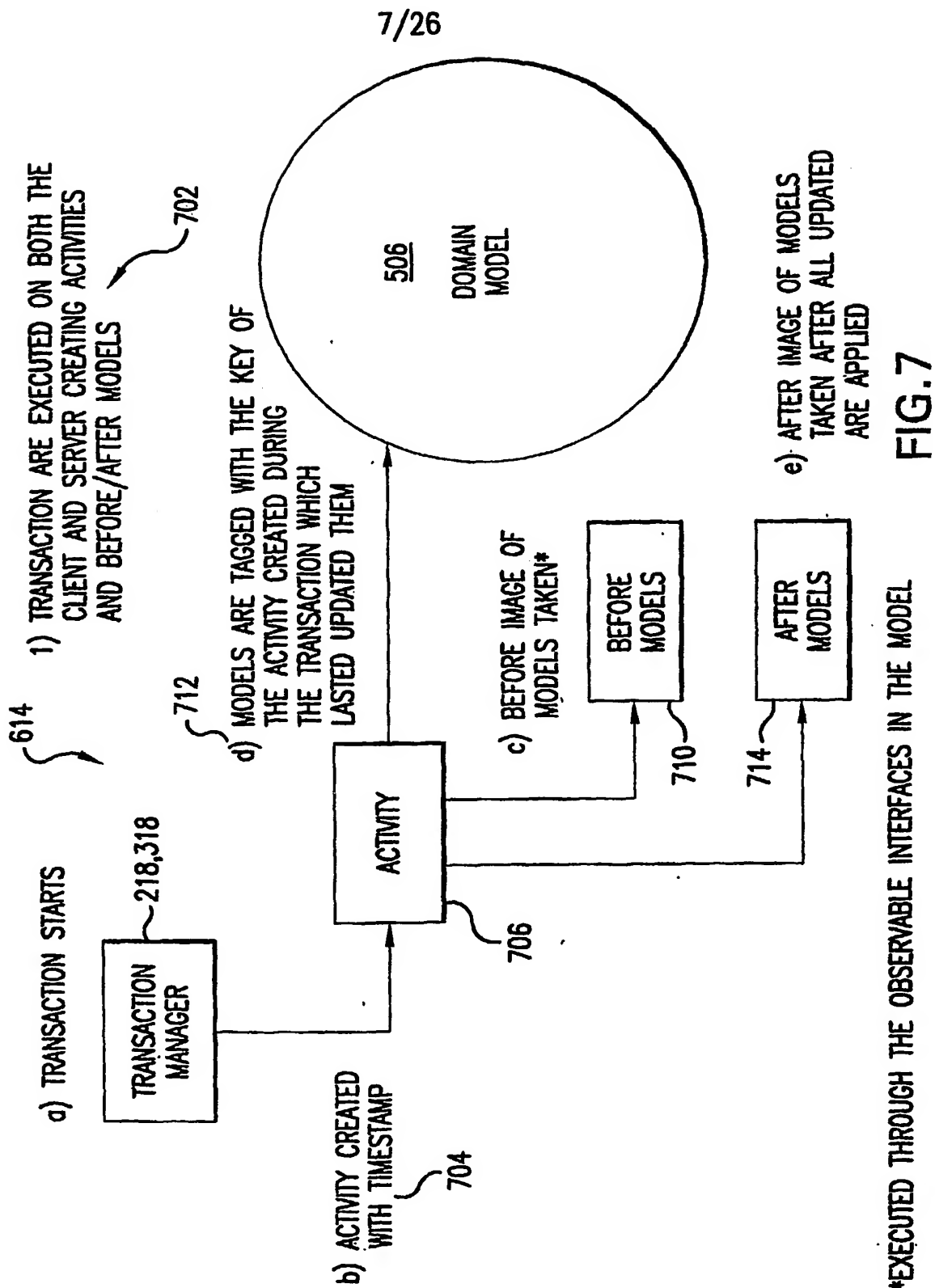


FIG.6



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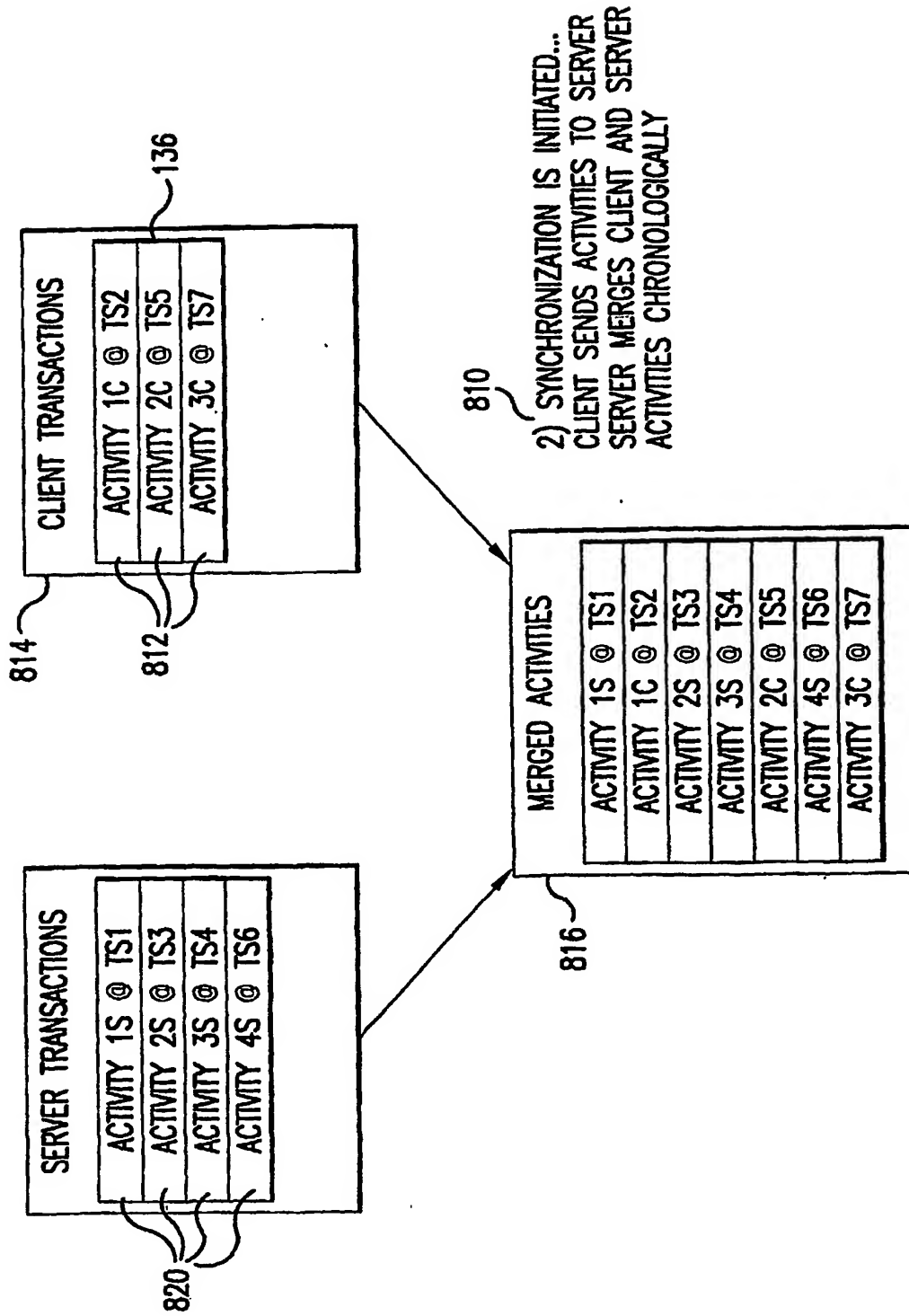
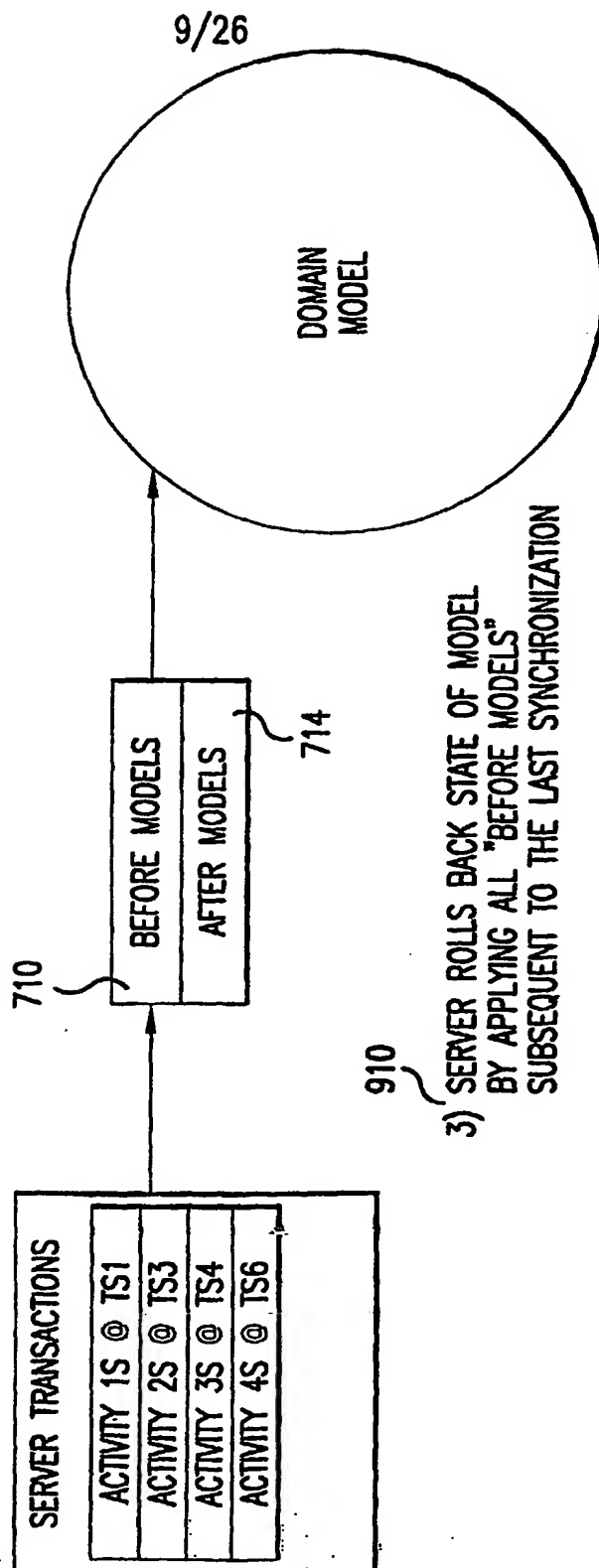


FIG.8

\*TS = TIMESTAMP

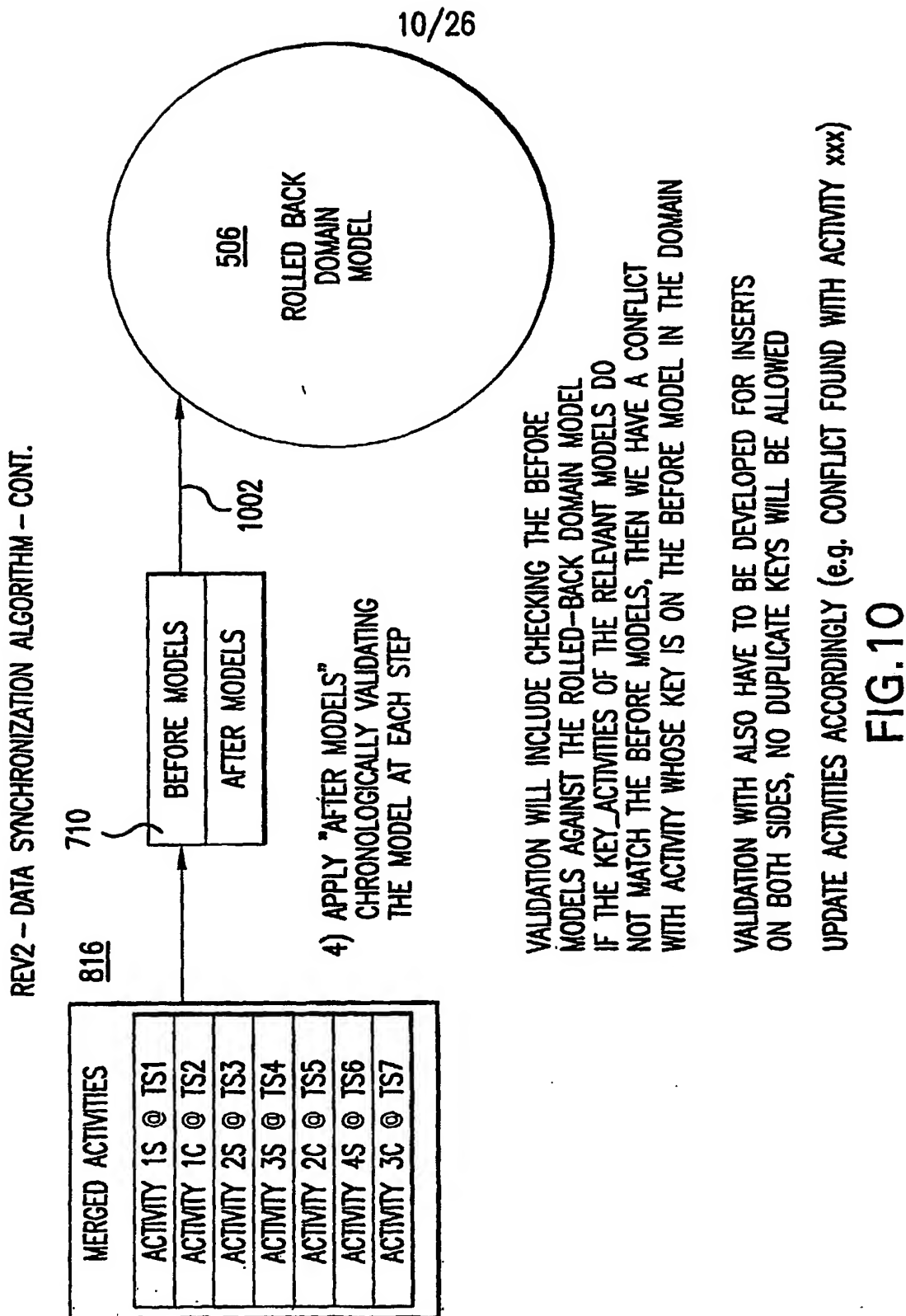


REV2 - DATA SYNCHRONIZATION ALGORITHM - CONT.

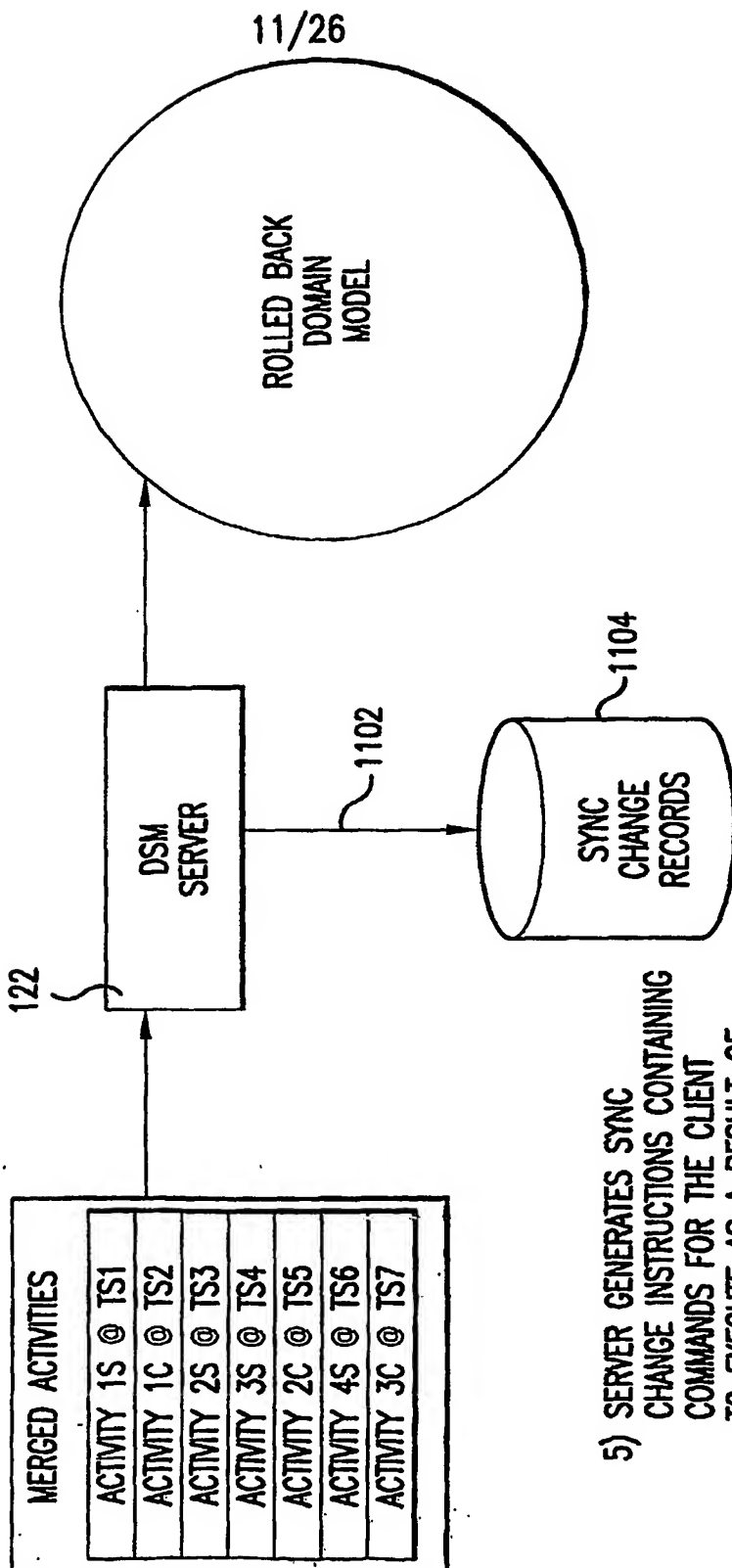


3) SERVER ROLLS BACK STATE OF MODEL  
BY APPLYING ALL "BEFORE MODELS"  
SUBSEQUENT TO THE LAST SYNCHRONIZATION

FIG.9



REV2 - DATA SYNCHRONIZATION ALGORITHM - CONT.



5) SERVER GENERATES SYNC  
CHANGE INSTRUCTIONS CONTAINING  
COMMANDS FOR THE CLIENT  
TO EXECUTE AS A RESULT OF  
THE SYNCHRONIZATION PROCESS

FIG.11

REV2 -- DATA SYNCHRONIZATION ALGORITHM -- CONT.

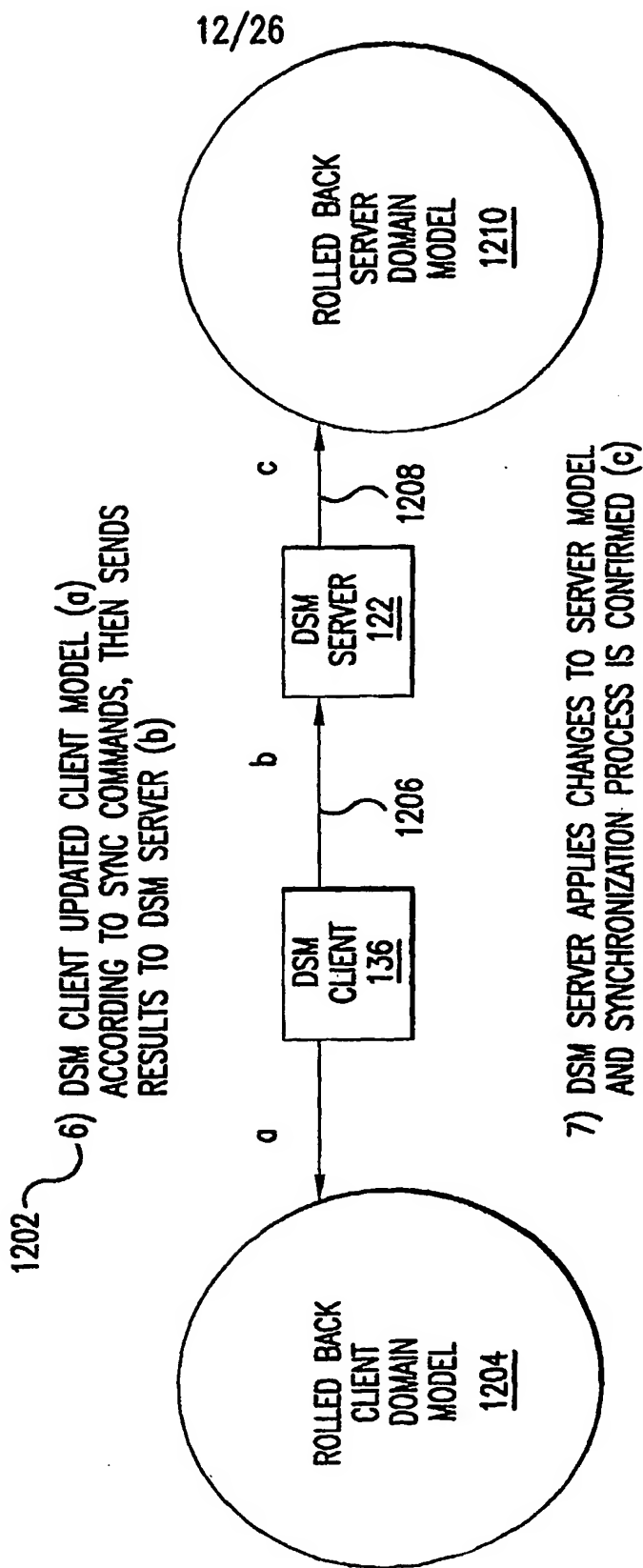


FIG.12

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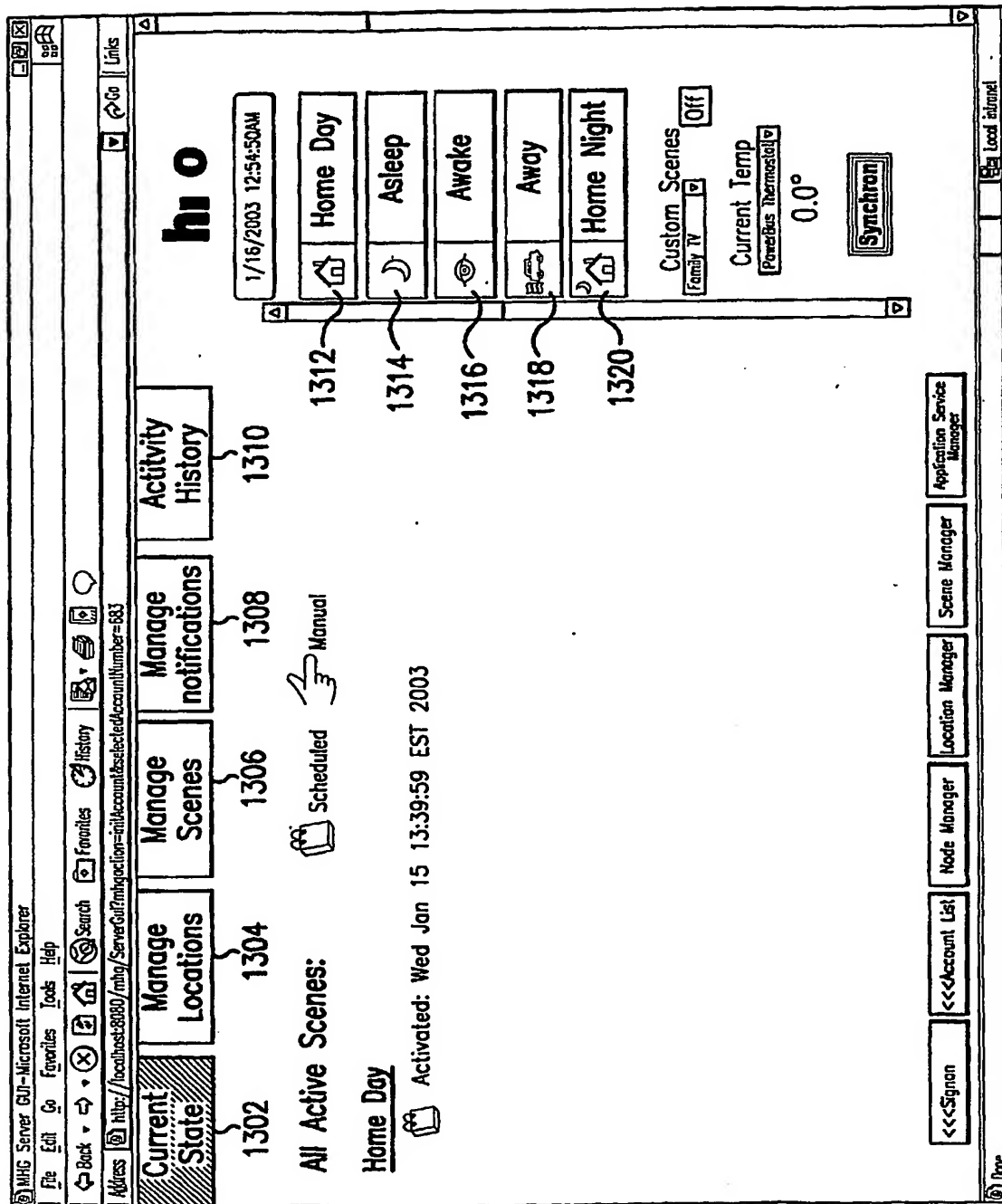
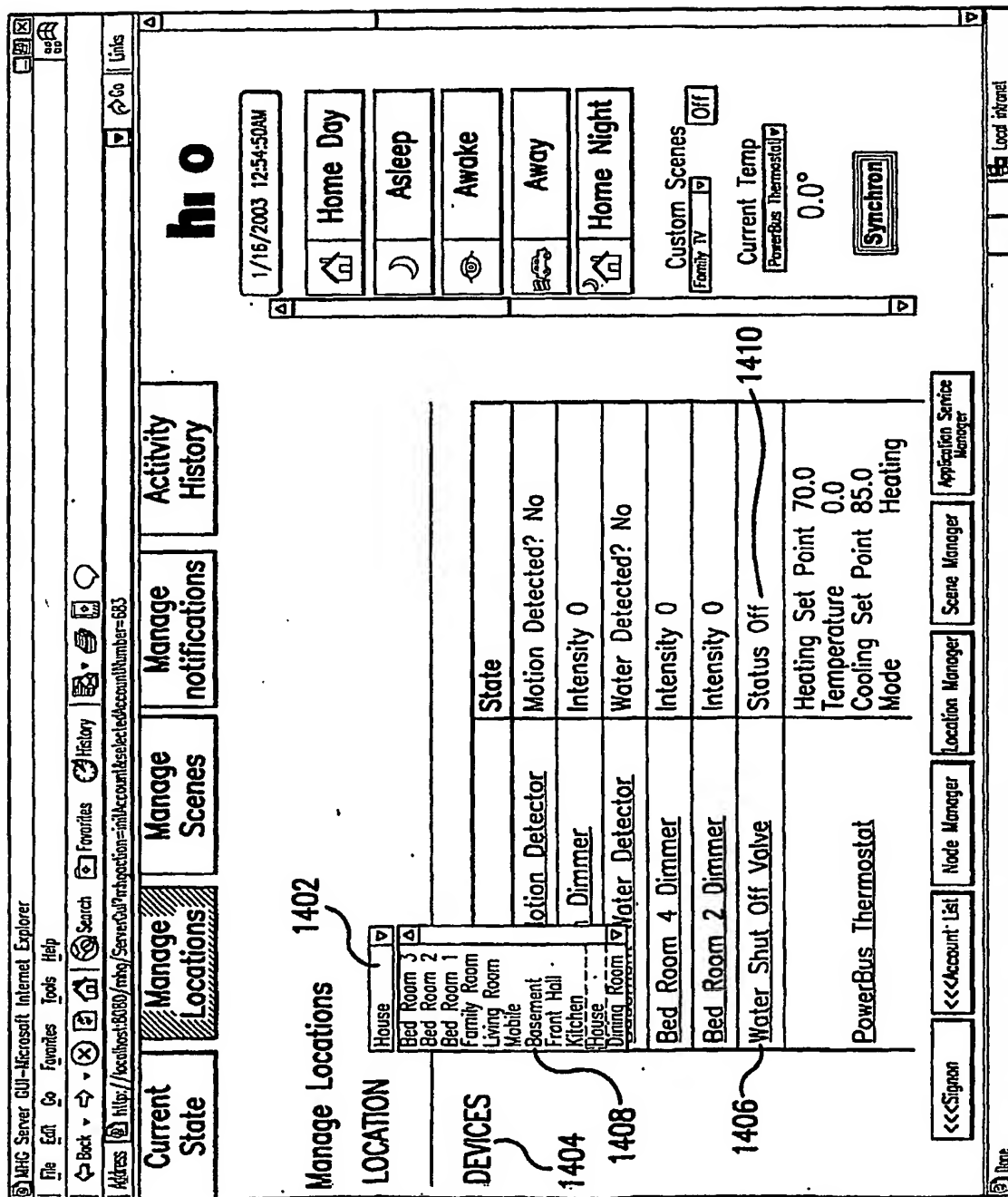


FIG.13

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FIG.14



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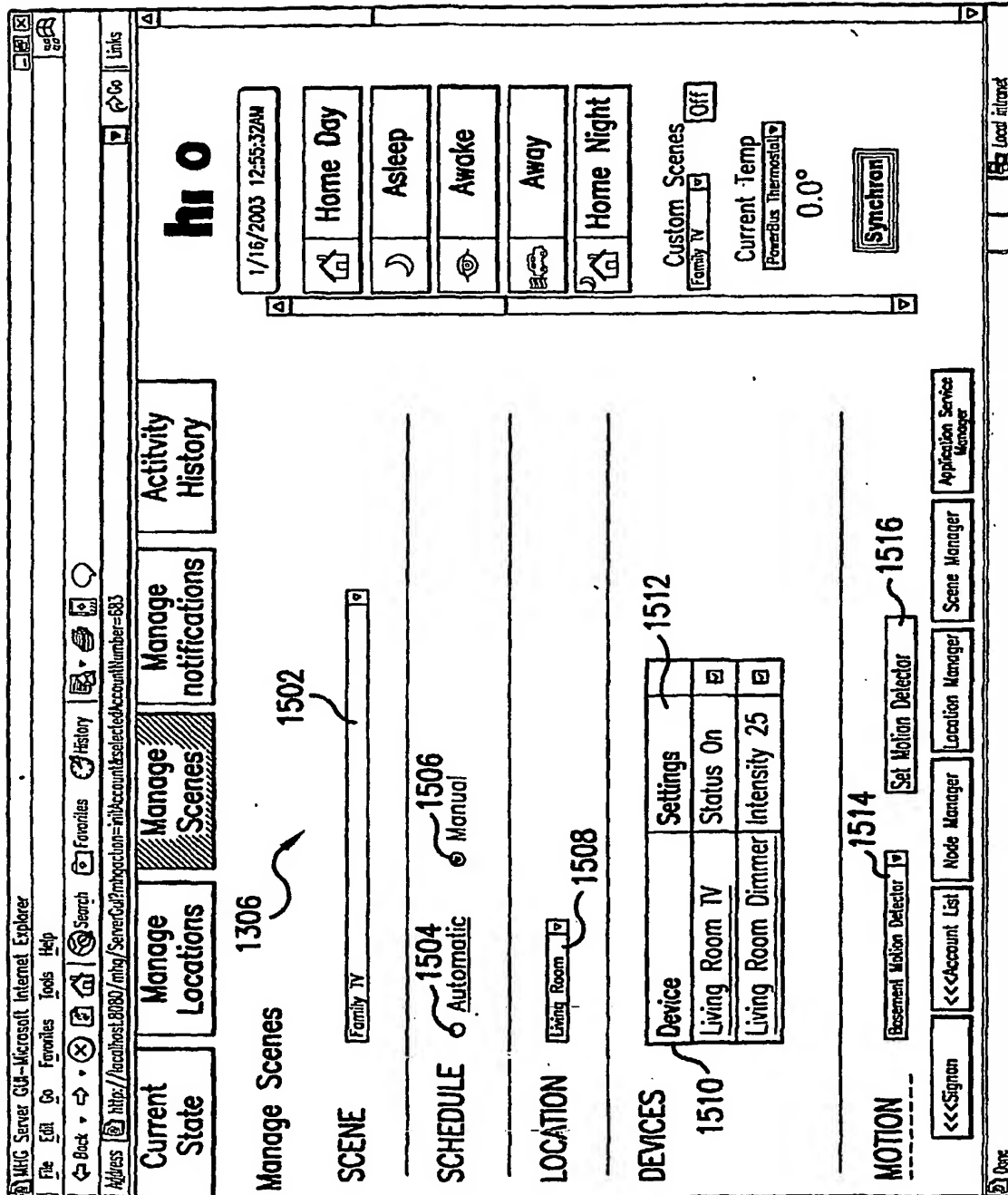


FIG.15

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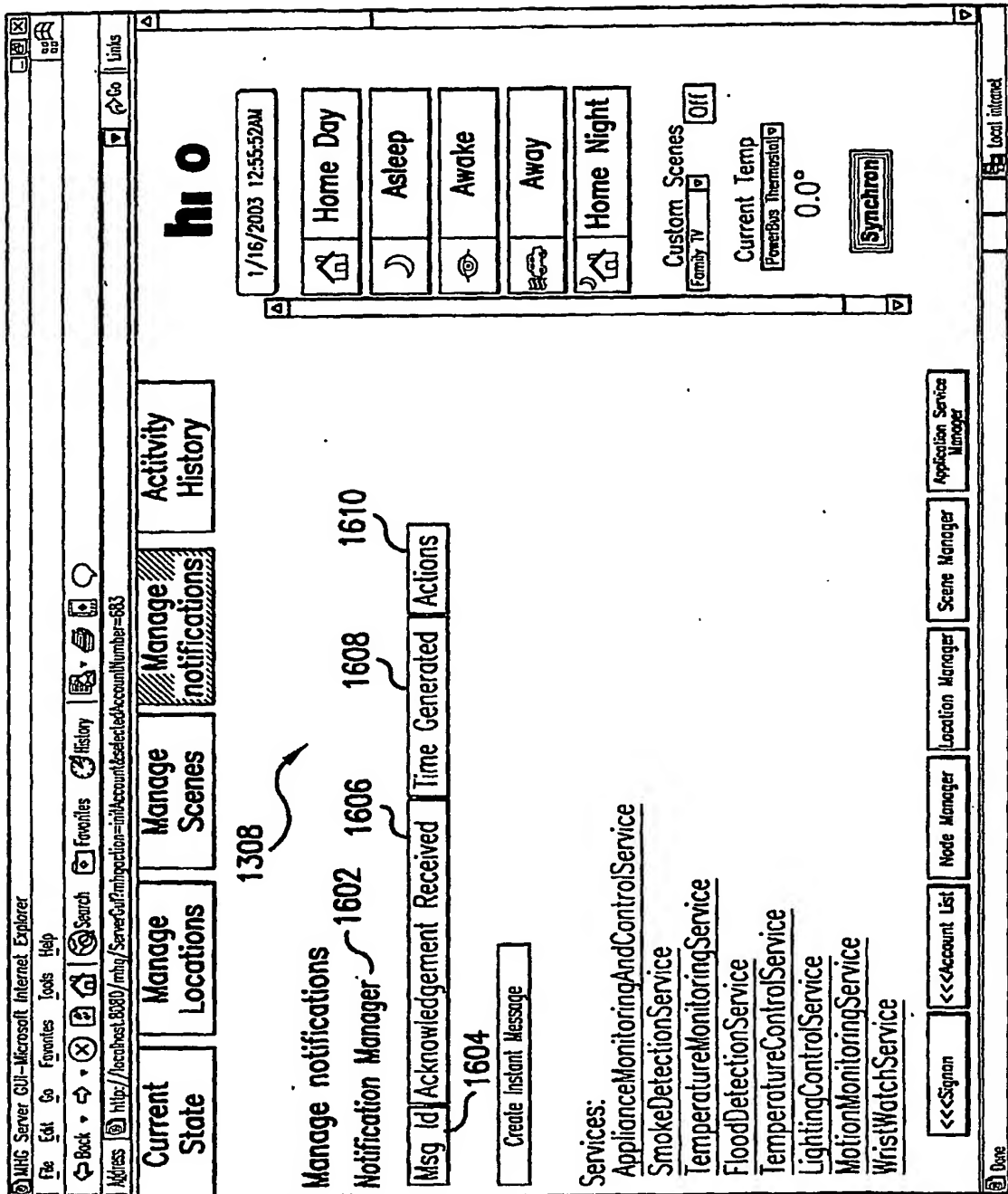


FIG.16



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Internet Explorer - MHG Server GUI - Microsoft Internet Explorer  
 File Edit Go Favorites Tools Help  
 Address http://localhost:8080/mhg/ServerGui?mbgocion=initAccount&selectedAccountNumber=683

Current State    Manage Locations    Manage Scenes    Manage notifications    Activity History

## hi o

1/16/2003 12:56:10AM

Home Day    Asleep    Awake    Away    Home Night

Custom Scenes    Family TV    Off

Current Temp    PowerBus Thermostat    0.0°

Synchron

Manage notifications    1702

Service Rules For TemperatureMonitoringService

Critical?	Interval (in minutes)	Type	Actions
<input type="radio"/> Yes	1706	Temperature low threshold breach for PowerBus Thermostat	Set Criteria    1710 Display Escalation List
<input checked="" type="radio"/> No	1708	Temperature high threshold breach for PowerBus Thermostat	Set Criteria    1712 Display Escalation List

Back to Notification Manager

<<<Signon    <<<Account List    Node Manager    Location Manager    Scene Manager    Application Service Manager

Done    Local Internet

FIG.17

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MING Server GUI - Microsoft Internet Explorer  
 File Edit Go Favorites Tools Help

Back Forward Stop Search History Favorites

Address <https://localhost:8080/ming/ServerGui?propertyName=initialAccount&selectedAccountNumber=683>

Units

Current State

Manage Locations

Manage Scenes

Manage Notifications

Activity History

1/16/2003 12:56:29AM  
Home Day  
Asleep  
Awake  
Away  
Home Night  
Custom Scenes  
Family TV  
Current Temp  
PowerBus Thermostat  
0.0°  
Synchron

### Manage notifications

The following table shows message delivery in order attempted:

Order	Info	Actions
1	Privileged	Remove

Please select from the following list to add to the escalation list:

Parties

Info

Actions

Add

bsmith

Imundo2

Add

Groups

Info

Actions

<<<Signon

<<<Account List

Node Manager

Location Manager

Scene Manager

Application Service Manager

Local Internet

**FIG. 18**

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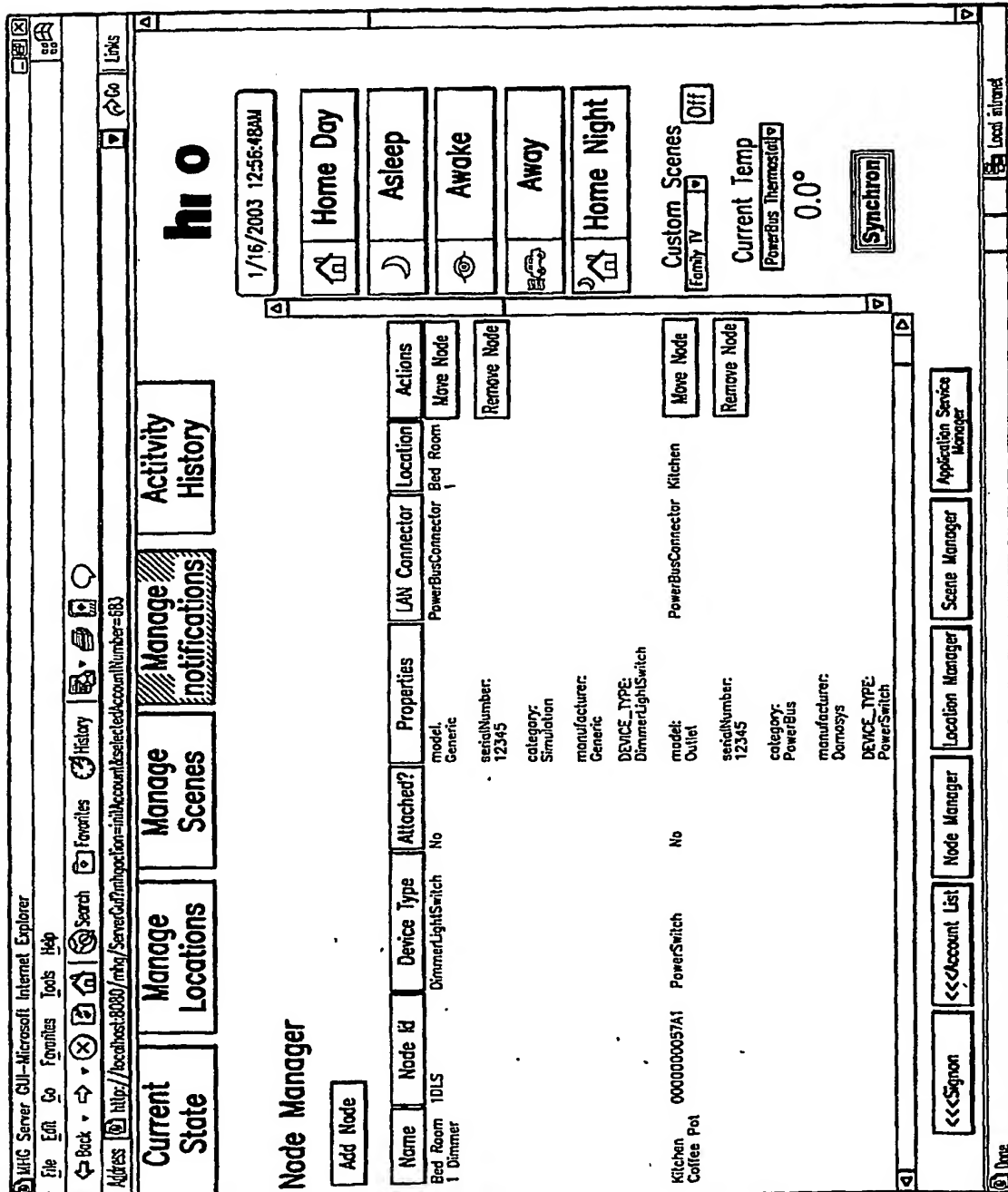


FIG.19

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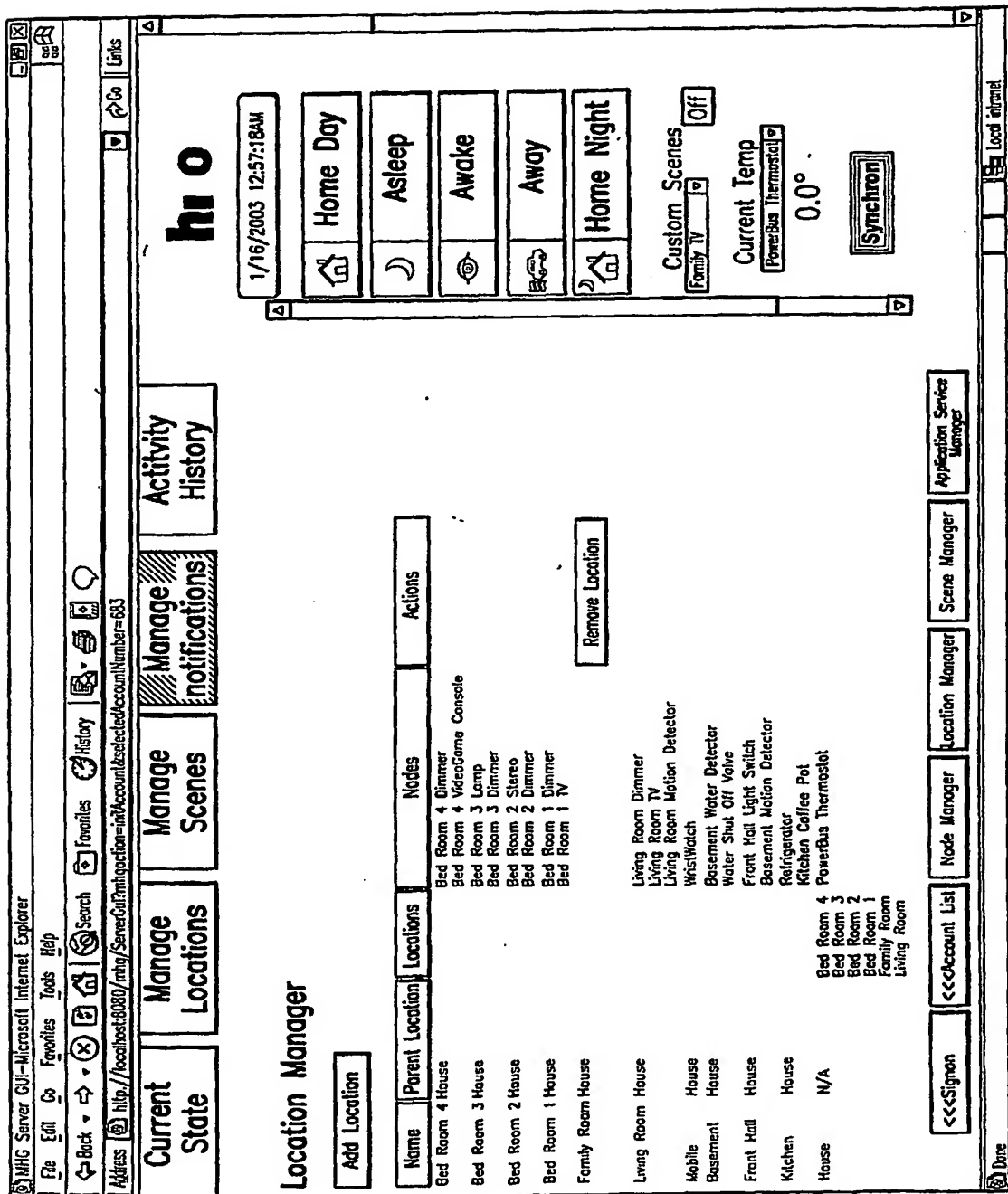


FIG.20

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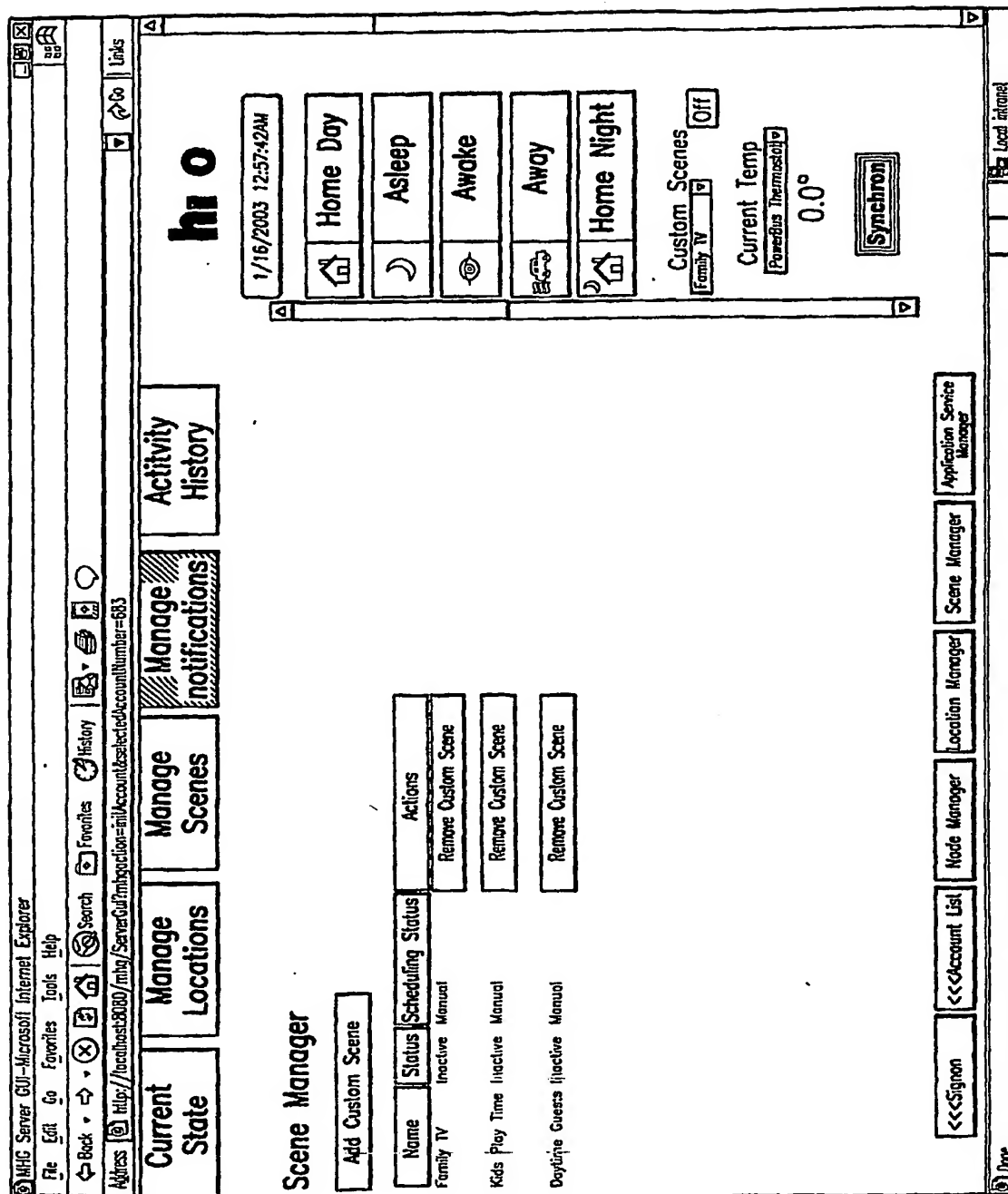


FIG.21

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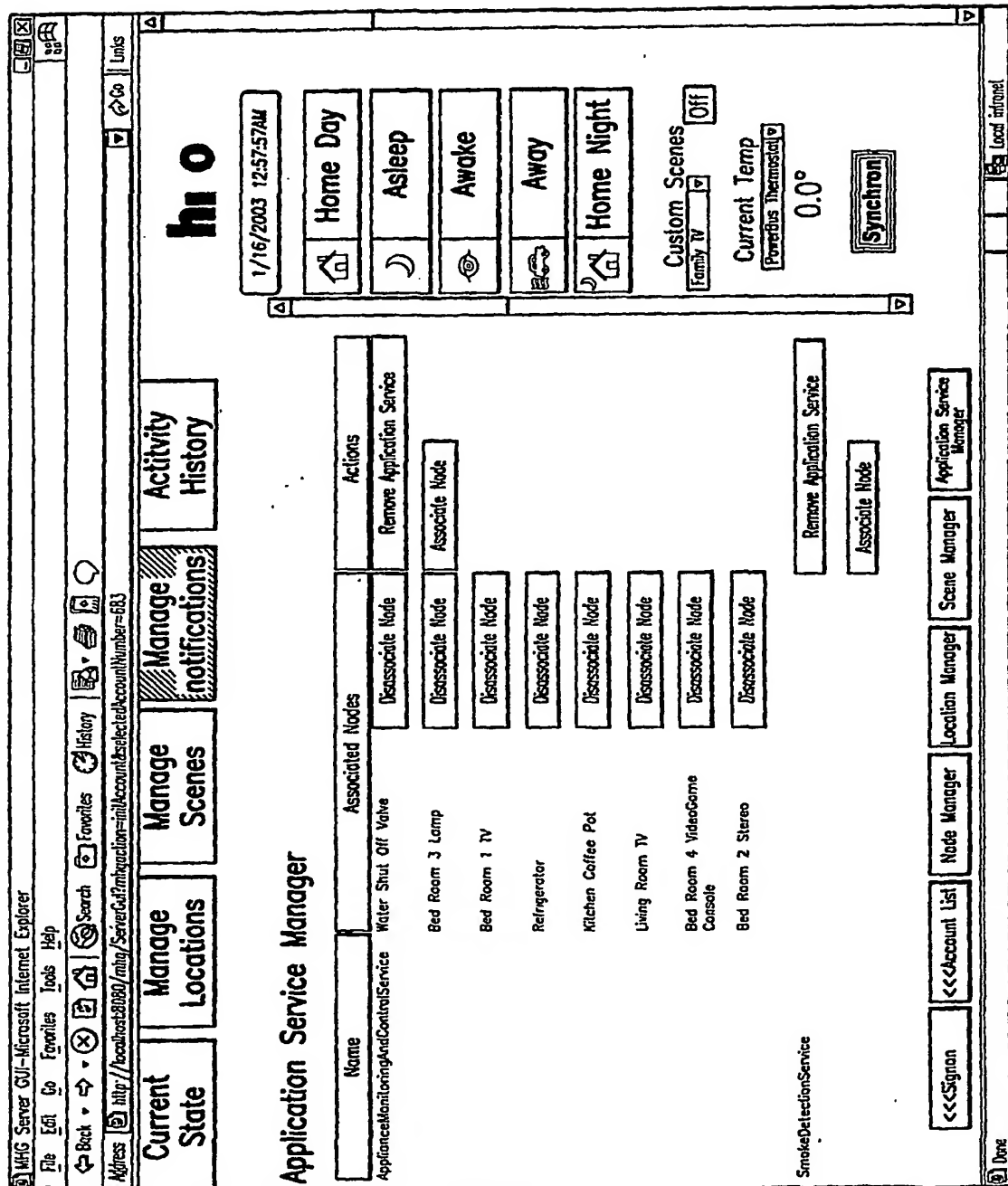


FIG.22

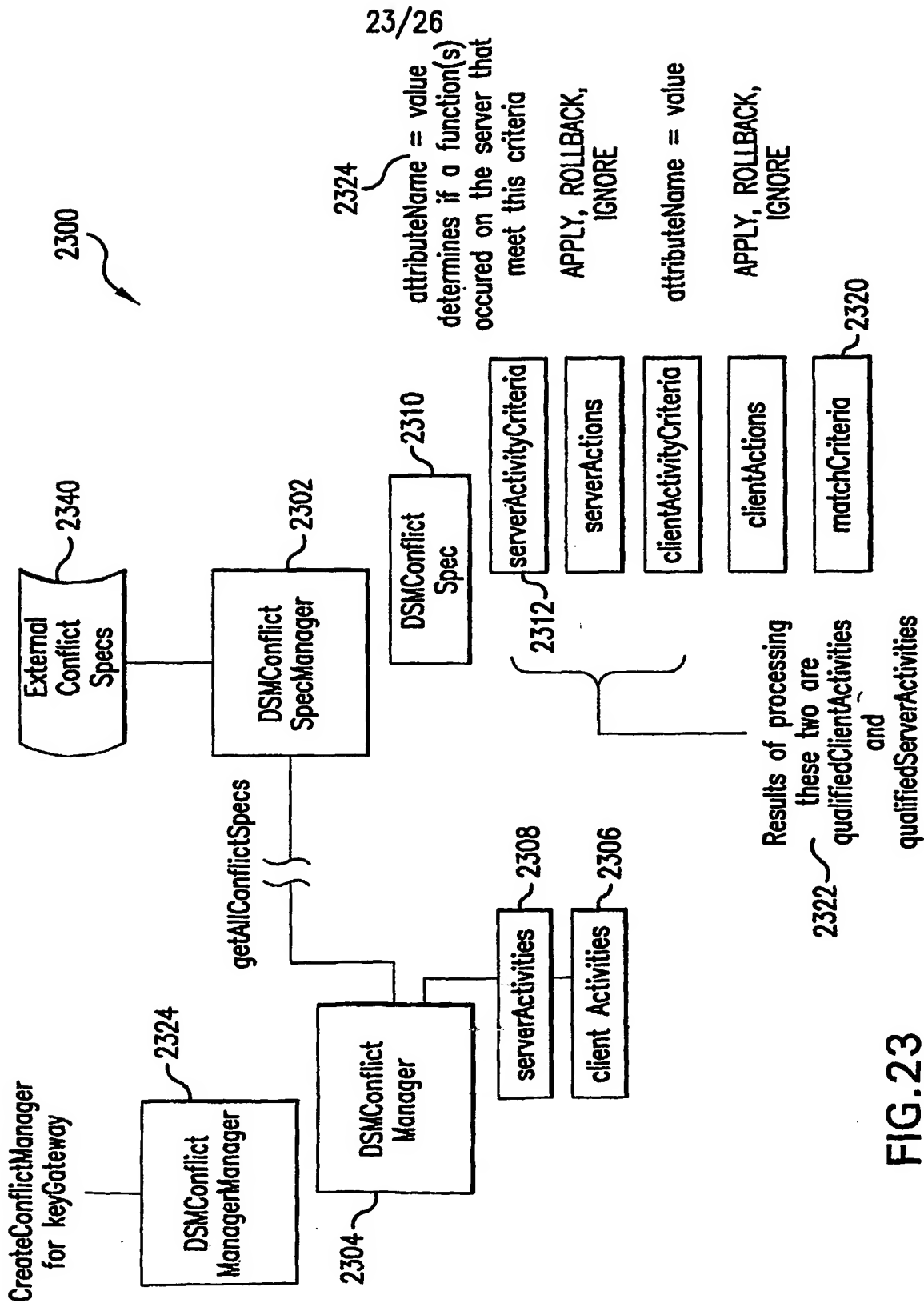


FIG. 23

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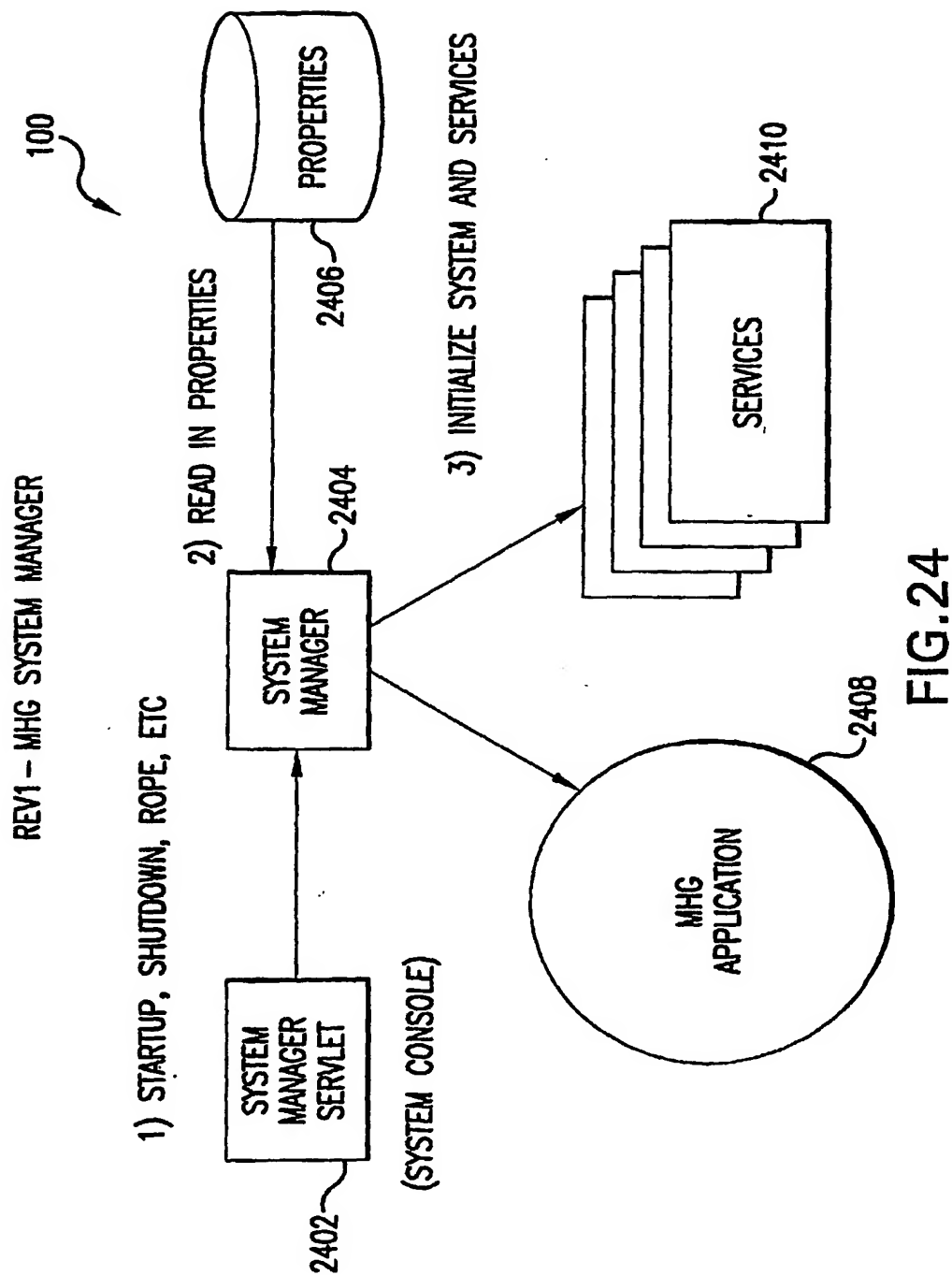


FIG.24



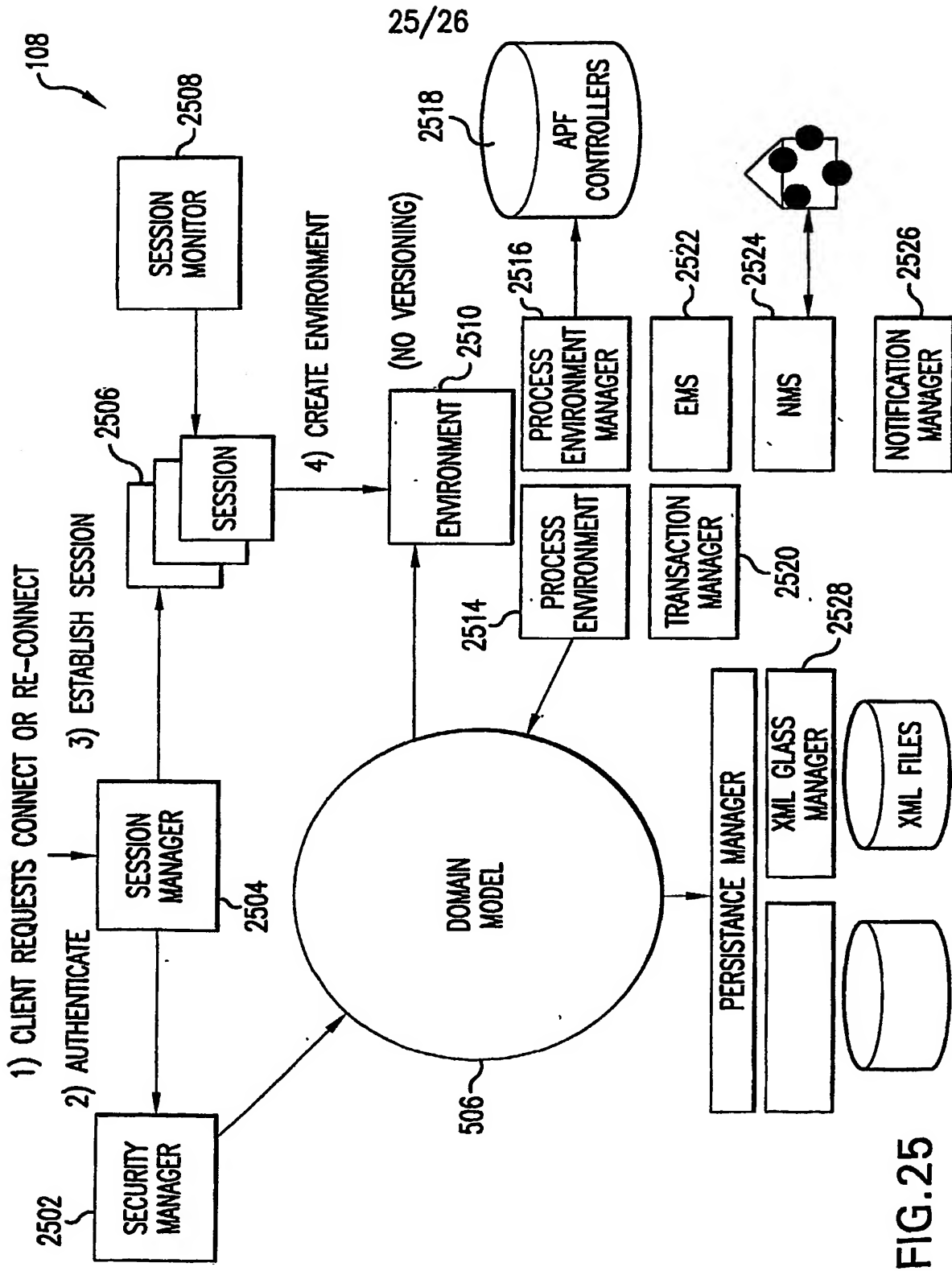


FIG. 25

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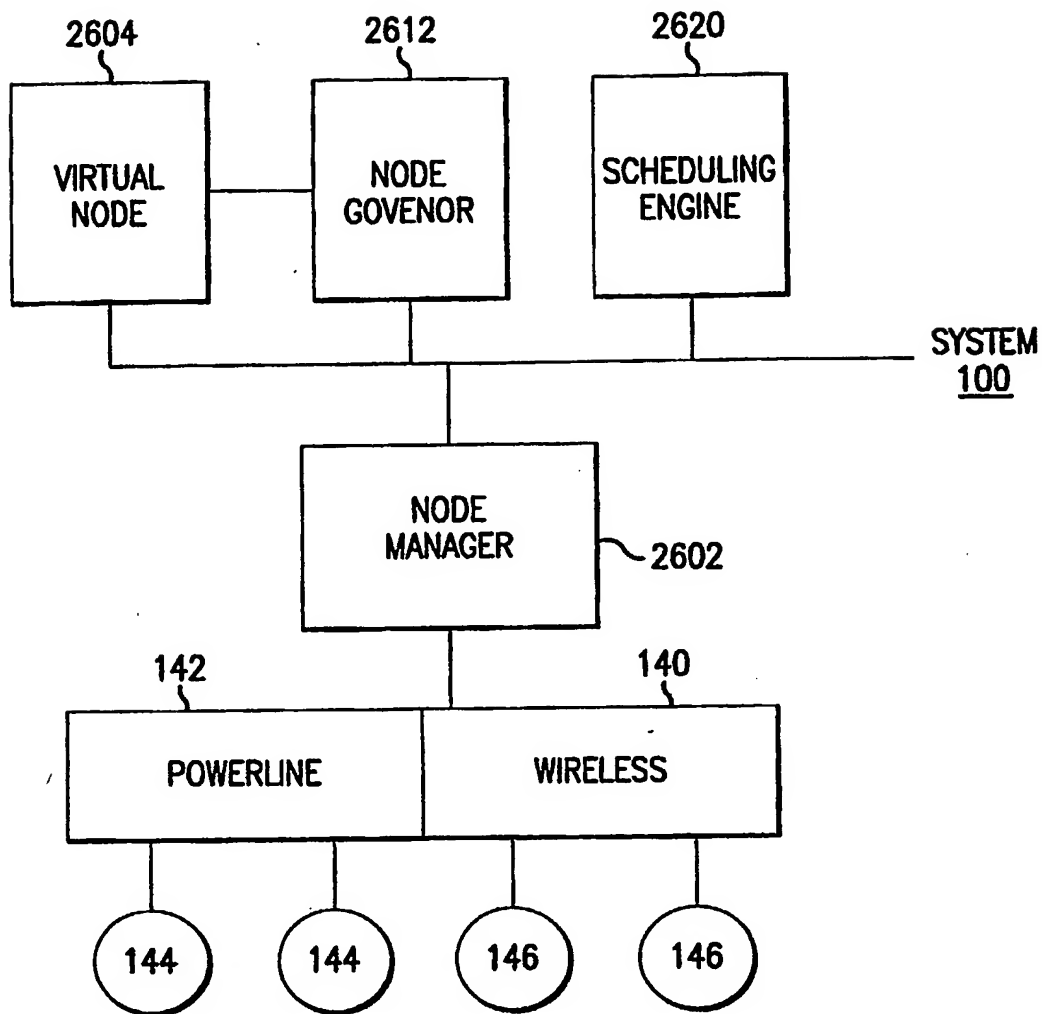


FIG.26